



# NAVAL SPECIAL WARFARE COMMAND

## N44 FACILITIES ENGINEER BULLETIN

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**Subject:** POLICY ON DELINEATION OF RANGE OPERATING SUPPORT (ROS) AND BASE OPERATING SUPPORT AND SUSTAINMENT, RESTORATION AND MODERNIZATION (BOS/SRM) ROLES AND RESPONSIBILITIES

### 1. Purpose

- a. This bulletin provides policy on delineation of roles and responsibility for ROS and BOS/SRM in support of NSWC Ranges and range support facilities.

### 2. Background

- a. BOS/SRM roles and responsibilities for range and range support facilities are blurred between the Echelon III Range Director and Staff Civil Engineer. General consensus is sustainment of non-range related facilities is the responsibility of the Echelon III Staff Civil Engineer. However, the responsibility for sustainment of ranges and range support facilities are less clearly defined. Although it varies between Echelon III Components, Range Directors often program, fund and execute sustainment of range and range support facilities. There are two issues with this type of sustainment planning and execution. First, facility sustainment subject matter experts (i.e. the Staff Civil Engineer and staff) often times are unaware of the range and range support facility issues at hand and therefore cannot and do not diagnose, program and execute the appropriate corrective actions. Second, funds originally programmed and budgeted for range equipment restoration and modernization are being diverted to facility sustainment.

### 3. Discussion

- a. To improve all aspects of program management, such as planning, Program Objectives Memorandum development and formulation, budgeting and execution, it is important to establish ROS and BOS/SRM as separate functions. The Range Directors and Staff Civil Engineers at

NSWC Echelon II and III Commands will have responsibility over ROS and BOS/SRM in accordance with the following:

- (1) BOS/SRM will be managed and administered by the Staff Civil Engineer and his or her staff. Their responsibilities, over and above non-range related facilities management, will extend to range structures and range support facilities. The following list contains examples of BOS/SRM responsibilities:
  - (a) Facility/building/structures (to include simulator facilities)
  - (b) Constructed (earthen/CMU/concrete) range containment walls
  - (c) SACON walls (used as ballistic barriers between ranges)
  - (d) Infrastructure/Utilities
  - (e) Exterior and interior lighting
  - (f) Heating, ventilation and air conditioning
  - (g) Range air exchange systems (excluding pre-filters and HEPA filters)
  - (h) Non-ballistic overhangs/shade structures
  - (i) Range flag poles
  - (j) Grounds maintenance (to include weed abatement and grass cutting)
  - (k) Berm maintenance (to include de-leading, alkalinity control, erosion control)
  - (l) Erosion and drainage control
  
- (2) ROS will be managed and administered by the Range Director and his or her staff. In addition to other range management duties, they will be responsible for purchase, repair, maintenance, and upgrade of collateral equipment associated with range operations to include infrastructure that directly supports operation of the collateral equipment. For example, building's main electrical panel will be BOS/SRM, conductors (and associated conduit, junction boxes, switches, sub-panels) leading away from the main panel directly supporting an automatic target system will be categorized as ROS. The following list contains examples of ROS responsibilities:
  - (a) Target systems
  - (b) Simulators (excluding relocatable or permanent facility housing the simulator)
  - (c) Bullet containment systems, i.e. baffles and brows (built-in equipment)
  - (d) Fixed or movable ballistic (AR-500 steel) walls (built-in equipment)
  - (e) Movable non-ballistic walls
  - (f) SACON walls (used as training aides)
  - (g) Rubber walls
  - (h) Bullet traps (collateral and built-in equipment)
  - (i) Sound equipment
  - (j) Smoke generators
  - (k) Air exchange system pre-filters and HEPA filters
  - (l) Surface lead dust mitigation
  - (m) Intrusion detection system for range facilities (e.g. CQC), ISRs and portable armories
  - (n) Outdoor tactical range fire control equipment and supplies (e.g. 12 km<sup>2</sup> @SCI)
  - (o) Range training aides

- b. Examples provided for ROS and BOS is certainly not an all inclusive list. Therefore, there are several guidelines to assist in discerning ROS and BOS responsibilities.

**(1) BOS/SRM**

- (a) Product or item was built using typical construction methods, technologies and materials.
  - i. Construction of a earthen berm using earth moving equipment or CESE
  - ii. Construction of a building
- (b) Repair, maintenance, or sustainment of the product or item is typically a NAVFAC responsibility.
  - i. Grounds maintenance
  - ii. HVAC repair and maintenance
  - iii. Electrical transformer repair
- (c) Product or item is a structural or non-structural building component.
  - i. Wood or galvanized steel framed walls
  - ii. Exterior non-ballistic sheathing
  - iii. Non-ballistic roof frame and sheathing
  - iv. Lighting
  - v. Non-ballistic flooring
- (d) Product or item is part of the facility infrastructure.
  - i. Water and sewer lines
  - ii. Main power panels
  - iii. Electrical conductors for lighting, HVAC, power receptacles
- (e) Built-in equipment
  - i. Secured to the wall or floor

**(2) ROS**

- (a) Product or item was commercially available off-the-shelf and is normally not a facility component
  - i. Targets and associated wiring/conductors
  - ii. Smoke generators
- (b) Product or item is ballistic in nature
  - i. Rubber walls
  - ii. Bullet traps
- (c) Product or item is assembled on site vice constructed
  - i. SACON walls
  - ii. RHUs
- (d) Product or item is typically a building component but is used as part of training
  - i. Doors/door frames breaching
- (e) Lead dust mitigation
  - i. Wet mopping or cleaning of surface areas within the range
  - ii. Regular change out of air exchange system pre-filters and HEPA filters

**4. Policy**

- a. NAVSPECWARCOM (NSWC) Component Command Staff Civil Engineers shall:

- (1) Assume responsibility for BOS/SRM of all facilities in their area of responsibility to include range and range support structures and facilities.
- (2) Work with the Range Director or his or her designated representative to identify range and range support facility BOS/SRM requirements. These requirements can also be based on a separate independent facility assessments.
- (3) Program, budget, plan and execute projects in support of BOS/SRM requirements

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